

2000 North Milwaukee Avenue • Libertyville, Illinois 60048 • (312) 367-6640

EPA Region 5 Records Ctr.



357473

CR016 -

PLEASE SEE ME ON THIS.

December 28, 1984

RECEIVED

ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

Illinois EPA
Division of Land Pollution
1710 S. First Avenue
Maywood, IL 60153

Attn: Ken Bechley

Dear Mr. Bechley:

The Lake County Forest Preserve District maintains a private residential well at its' Greenbelt Forest Preserve. This well is near the closed North Chicago Landfill Site and has been sampled for the last two years by the Lake County Health Department (copies of the chemical analyses are enclosed).

While none of the analyses have exceeded state drinking water standards, there are several parameters (pH, COD, Nitrate) which seem to indicate degrading water quality conditions.

Since this well is near an existing landfill site, the District would like to know if this landfill could possibly be the cause of the changing water quality. Could your agency look into this matter and advise the District?

Your assistance would be greatly appreciated.

Sincerely,

Donald Strenger
Donald Strenger
President

Enclosure
DS/klb

County: LAKE
Source or Location: BFI - No. Chicago

Spring
Stream
Pond
Well

[illegible]

#2
1LAKE COUNTY HEALTH
DEPARTMENT LABORATORY

Registry No. 17019

SAMPLES MUST REACH
LABORATORY WITHIN 24 HOURS
AFTER COLLECTION

LAB. NO.

001269

DATE REC'D

7/18/84 BY DM

4/15

COLLECTOR FILL IN THIS BOX ONLY-FILL IN ONE SHEET FOR EACH SAMPLE-WRAP WITH SAMPLE TO WHICH IT PERTAINS-FILL IN OR CHECK APPROPRIATE ITEMS									
COLLECTED BY <u>M. Kuhn</u>				PRIVATE WATER SUPPLY WELL <input checked="" type="checkbox"/> DEPTH <u> </u> FT <u> </u>		OTHER (Describe)			
COLLECTION DATE <u>7/18/84</u>		TIME <u>10:20</u> ^{AM} _{PM}		PUBLIC WATER SUPPLY WELL <u> </u> WELL NO <u> </u>		DIST. SYSTEM		CHLORINE RES	
LOCATION ADDRESS <u>Douglas</u>		SAMPLE POINT <u>outside Tap</u>		SURFACE <u> </u> RAW <u> </u>		FILTERED <u> </u>		FINISHED <u> </u>	
COUNTY <u>Lake</u>		TOWNSHIP <u>Waukegan</u>		CITY <u>Waukegan</u>		SURFACE WATER SAMPLE DITCH <u> </u> POND <u> </u>		LAKE <u> </u> BEACH <u> </u> STREAM <u> </u>	
MAIL REPORT TO:				SEWAGE SAMPLE RAW <u> </u> FINAL <u> </u>		OTHER <u> </u>		CHLORINE RES	
NAME <u> </u>				SWIMMING POOL DEEP <u> </u> SHALLOW <u> </u>		pH <u> </u>		CHLORINE RES	
STREET <u> </u>				X <u> </u> (Signature of Manager or Lifeguard)					
TOWN <u> </u>				REMARKS <u>clear, sulfur odor</u>					
TELEPHONE <u> </u>				<u>56°F</u> <u>BFI</u>					

DO NOT WRITE BELOW

CHEMICAL/PHYSICAL (As mg/l except *)						BACTERIOLOGICAL			
ALKALINITY		NITRATE	<u>0.02</u>	C.O.D.	<u>12.00</u>		Vol.	No.	No./ 1 ml
AMMONIA	<u>0.32</u>	pH*	<u>8.15</u>	BOD	<u>0.49</u>				
B.O.D		PHOS., ORTHO		PHENOL*	<u> </u>	STANDARD PLATE COUNT			
CHLORIDE	<u>8.98</u>	PHOS., TOTAL		*mg/L	<u><1.5</u>				
C.L. RESIDUAL		SILICA				MEMBRANE FILTER:			No./ 100 ml
COPPER		SOLIDS, SUSP.					Vol.	No.	
D.O.		SOLIDS, TOTAL	<u>245.70</u>			TOTAL COLIFORMS			
DETERGENT		SULFATE	<u>44.72</u>			FECAL COLIFORMS			
FLUORIDE		SULFIDE	<u> </u>			FECAL STREPTOCOCCI			
HARDNESS	<u>64.00</u>	TURBIDITY*							
IRON	<u>0.29</u>	SPEC. COND.	<u>500.00</u>						
DATE REPORTED FROM LAB <u>7/25/84</u> <u>G. Galt</u>						BY <u> </u> ANALYST			

REPORT OF ANALYSIS

☐ SATISFACTORY☐ UNSATISFACTORY☐ REPEAT SAMPLE
REQUIRED☐ OTHER

SOLID WASTE INFORMATION

<p>FACILITY NAME AND LOCATION:</p> <p style="margin-left: 40px;">B.F.I. Landfill at North Chicago</p>	<p>MAP REFERENCE NO: 1 BASIN: Des Plaines/ SITE CODE NO: 09712503 Lake Michigan REGISTRATION NO: COUNTY: Lake SEGMENT: A-01</p>												
<p>ADJACENT STREAM(S): Unnamed trib. to the Skokie R. STREAM(S) 7 DAY, 10 YEAR LOW FLOW (CFS):</p>													
<p style="text-align: center;">LANDFILL INFORMATION</p> <p>TYPE OF REFUSE: Garbage</p> <p>ANNUAL QUANTITY (CU. YDS.): 161,200</p> <p>SITE AREA (ACRES): 12</p> <p>LEACHATE QUALITY (MG/L):</p> <p>FLOW (CFS):</p>	<p style="text-align: center;">PERMIT INFORMATION</p> <p>IEPA# 73-64</p>												
<p style="text-align: center;">GENERAL INFORMATION</p> <p>SITE TOPOGRAPHY: Level area SURROUNDING LAND USE: Residential</p>	<p style="text-align: center;">GEOLOGIC INFORMATION</p> <p>UNDERLYING MATERIALS: Silty clay, sandy clay, & gravel</p> <p>COEFFICIENT OF PERMEABILITY: 10^{-7}</p> <p>DEPTH OF AQUIFER: 15'</p> <p>GROUND WATER MOVEMENT: DIRECTION: RATE:</p>												
<p style="text-align: center;">GROUND WATER INFORMATION</p> <p>MONITOR WELLS-WATER QUALITY (MG/L):</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">NO.</th> <th style="text-align: left;">DATE</th> <th style="text-align: left;">WL</th> <th style="text-align: left;">CL</th> <th style="text-align: left;">FE</th> <th style="text-align: left;">TDS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1/76</td> <td></td> <td>9.2</td> <td>0.8</td> <td>690</td> </tr> </tbody> </table> <p>NEARBY WATER SUPPLIES LOCATION DEPTH:</p>	NO.	DATE	WL	CL	FE	TDS	1	1/76		9.2	0.8	690	<p style="text-align: center;">COMMENTS</p> <p>Collection system and sump to STP</p>
NO.	DATE	WL	CL	FE	TDS								
1	1/76		9.2	0.8	690								
<p style="text-align: center;">PLANNING AREAS</p> <p>PLANNING AREA 201: North Shore Sanitary District FPA 202: NIPC</p> <p>DESIGNATED LEAD AGENCY (201):</p> <p>FPA MAP REFERENCE: Lake - C</p>													

3/30/76

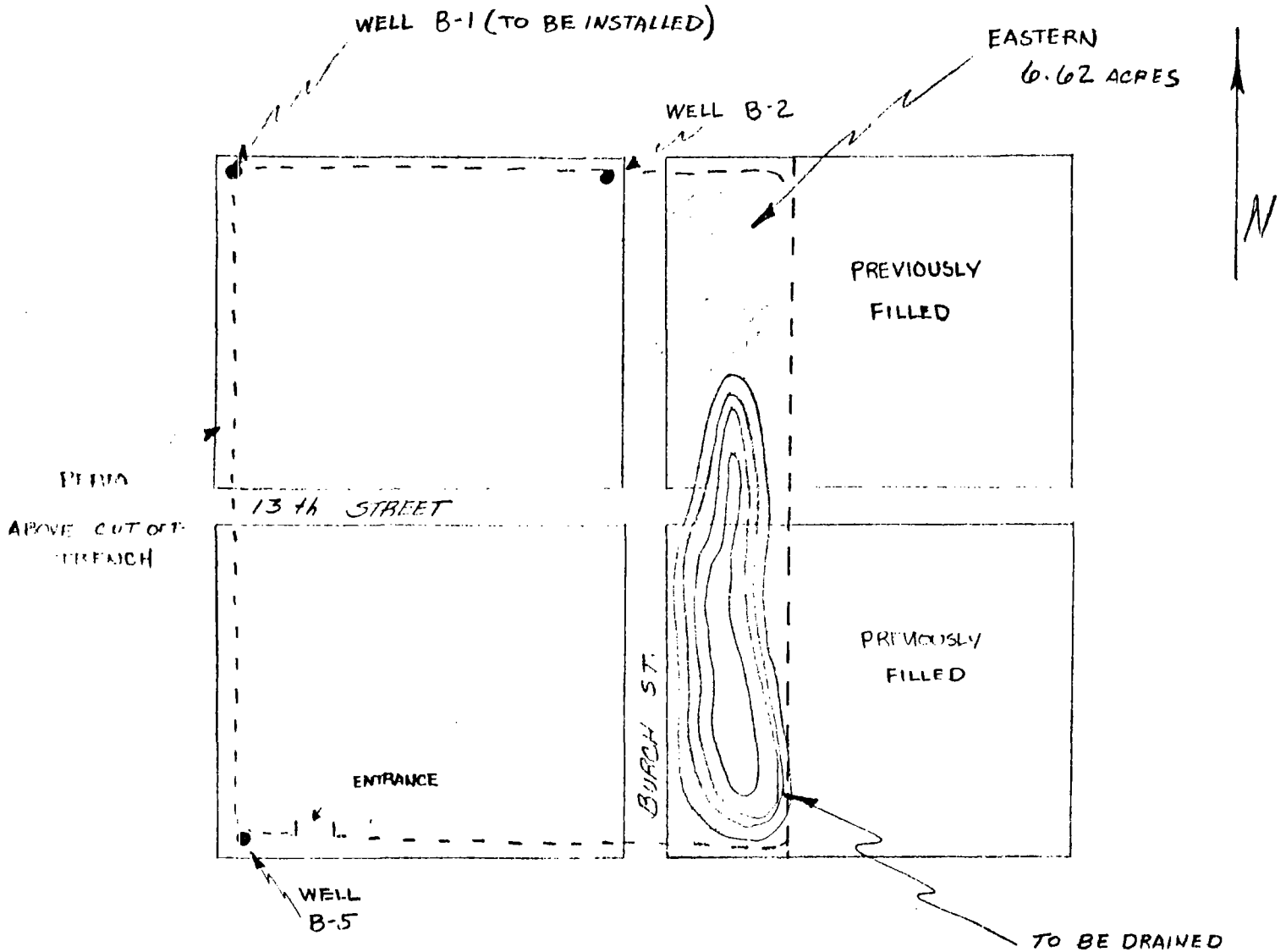
OFFICE OF RESEARCH
ENVIRONMENTAL PROTECTION AGENCY

LAKE COUNTY N. CHICAGO / B.F.I

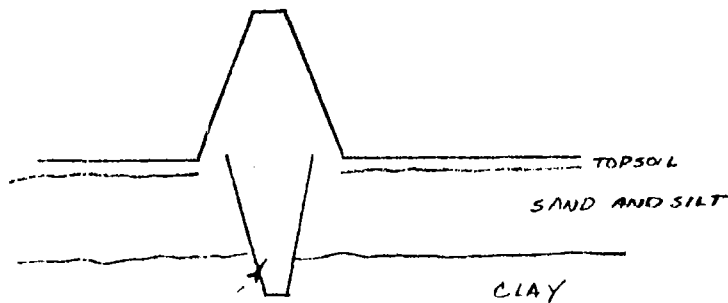
Data

Reviewed by MWR

Date 3-24-74



TYPICAL BERM AND BACKFILLED CUT OFF TRENCH



219/702-6700

Refer to: Lake County - 09710903 - North Chicago/D.F.I.
Lake County - 09701001 - Antwerp Harbor/D.F.I.

June 1, 1977

RECEIVED

JUN - 2 1977

ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

Mr. Thomas Klusewski
Grossing-Perris Industries
1350 Kruger Circle
Mokena, Illinois 60459

Dear Mr. Klusewski:

The Illinois Environmental Protection Agency's Division of Land/Air/Water Pollution Control has developed a new water monitoring analysis form. This new form is to be used by you in complying with the quarterly water monitoring requirements specified in your operating permit. The new form is needed so that we can computerize the large volumes of water monitoring data we are receiving from throughout the State.

In order to computerize the data, each of the monitoring points at your site has been assigned a permanent number by the Agency. The following is a list of the monitor points located at your site, and the agency-assigned number for each point.

Monitor Point

Agency Assigned Number

North Chicago/D.F.I.

A-1	6101
A-2	6102
A-3	6103
A-4	6104

Antwerp Harbor/D.F.I.

A-1	6101
A-2	6102
A-3	6103

Page 2

Analysis forms will be sent directly to you about six weeks before your quarterly analyses are due. The site inventory number, monitor point number, county, region, location, and responsible party will be preprinted on the form. It will be your responsibility to complete the date the sample is collected and the rest of the left side of the form, and see that the form and water sample are delivered to the lab of your choice to be analyzed for the proper parameters as outlined in your operating permit. It will also be the responsibility of either you or your designated lab to match up the correct sample number (found in spaces 17-20) with the correct water sample. If you have not received the necessary forms by four weeks before the analyses are due, contact the Land Technical Support Unit at the above-listed number.

Enclosed are the necessary forms for the July, 1977 quarter with the required chemical parameters indicated in red. Note that there are two copies of the instructions for completing these forms. Please retain one copy for yourself and pass along the second copy to the lab which does your analytical work.

Your North Chicago site is currently listed in our files as "closed and not final covered". You should be aware that under the Illinois Solid Waste Rules and Regulations, Rule 310, your monitoring obligation extends for three years after the site is closed and covered as determined by an inspection made by our Aurora Regional Office. Therefore, it will be to your advantage to complete the final covering of this site as soon as possible.

If you have any questions, please feel free to contact either Monte Hienler or myself.

Very truly yours,

Thomas P. Clark
Hydrogeologist
Technical Support Unit (Land)
Division of Land/Air/Pollution Control

TC:MM:LR:37

cc: Division FOS file (green)
Water Quality File (T. Clark)
Northern Region

Enclosures

217/782-6760

Refer to: Lake County - 09712503 - North Chicago/B.F.I.

December 15, 1977

Browning-Ferris Industries
2330 Kruger Circle
Waukegan, Illinois 60085
Attention: Mr. Thomas Kluzewski

RECEIVED

DEC 19 1977

ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

Dear Mr. Kluzewski:

In reviewing the water monitoring results submitted for the above-captioned site, it was noted that not all monitor points were sampled. The following list shows monitor point number, date reported, and the reason you were unable to sample in each case.

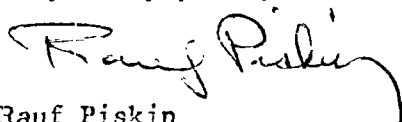
<u>Monitor Point Number</u>	<u>Date</u>	<u>Reason</u>
G102	10/12/77	well point destroyed
G103	10/12/77	well point destroyed

As outlined in your operating permit, it is your responsibility to see that water analysis results are submitted each quarter. The reason(s) given above do not excuse the permittee from this responsibility.

If the monitor wells listed above cannot be repaired, installation of new wells adjacent to the old locations will be required. Please notify this office by January 15, 1978 of the corrective action which will be taken. Agency approval must be obtained before installing new monitor wells.

Your cooperation in submitting quarterly test results is appreciated. If you have any questions, please feel free to contact me.

Very truly yours,



Rauf Piskin
Hydrogeology Unit (Land)
Division of Land/Noise Pollution Control

RP:DG:jkk-1630-6

cc: Division FOS File ✓
Northern Region ✓

January 8, 1974

Browning-Ferris Industries of Illinois, Inc.
2330 Ernest Krueger Circle
Waukegan, Illinois 60085

Re: Permit to Operate
Solid Waste Disposal Site

Gentlemen:

Permit to operate a solid waste disposal site--Sanitary Landfill Permit #111A--is hereby granted to Browning-Ferris Industries of Illinois, Inc. for your solid waste disposal site of approximately four (4) acres described as:

Lot 2 of Block 2 and Lots 1 & 2 of Block 3 in F. H. Bartlett's First Addition to North Shore Park, being a subdivision of NW $\frac{1}{4}$ of Section 31, Township 45 North, Range 12 East, Lake County, Illinois.

This permit is issued as provided in Article VIII of the Lake County Board of Health Ordinance and is subject to the provisions and regulations of said Ordinance; it shall remain in effect until such time as it is revoked or suspended and shall expire six months after the date the site is no longer used for the disposal of solid wastes. This permit is not transferable.

The Lake County Health Department has relied upon the statements and representations made by the owners in the application hereof; and in case any statement or representation in said application is found to be incorrect, this approval may be revoked without further notice and the owners thereupon waive all right thereunder.

There shall be no deviation from plans and the operation method submitted with the application for this approval unless revised plans and method of operation therefor shall first have been submitted to the Lake County Health Department, and a supplemental written approval issued therefor.

The soil borings indicate that the material is excellent for cover but you will have to be selective in the material used for the permanent berm. The area should be protected to prevent flooding by a temporary berm along the south edge.

File

Browning-Ferris Industries of Illinois, Inc.
January 8, 1974
Page 2

This approval and permit does not release the owner from compliance with other applicable statutes of the State of Illinois or with applicable county law, ordinances or regulations.

Very truly yours,

LAKE COUNTY HEALTH DEPARTMENT

Eugene P. Theios, Director
Division of Environmental Health

EPT:mp

cc: EPA, Region Office
: City of North Chicago

LAKE COUNTY *Health Department*

1515 WASHINGTON STREET
WAUKEGAN, ILLINOIS 60085

PHONE: 244-0550

JACK I. SMITH, M.D., DR. P.H., Director

January 8, 1974

Browning-Ferris Industries of Illinois, Inc.
2330 Ernest Krueger Circle
Waukegan, Illinois 60085

Re: Permit to Operate
Solid Waste Disposal Site

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Browning-Ferris Industries of Illinois, Inc.

January 8, 1974

Page 2

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Very truly yours,

LAKE COUNTY HEALTH DEPARTMENT

Eugene P. Theios, Director
Division of Environmental Health

EPT:mp

cc: EPA, Region Office
: City of North Chicago

217-782-6760

December 2, 1974

LAKE COUNTY - Land Pollution Control
North Chicago/BFI
Permit No. 1973-64-OP
Supplemental Permit No. 74-156

Browning-Ferris Industries
2330 Kruger Circle
Waukegan, Illinois 60085

Gentlemen:

Supplemental Permit is hereby granted to Browning-Ferris Industries of Illinois to modify the design of the above referenced solid waste disposal site all in accordance with the plans prepared by Thomas H. Handyside, P.E., dated October 4, 1974 and received by the Agency on October 8, 1974. This supplemental permit is further subject to the following special conditions:

1. Refuse may be placed at depths not to exceed seven feet (7'). In the western 275 lineal feet (measured along 12th Street between Burch and Pine Streets), fill may not be placed at depths in excess of 1.5 ft. A minimum buffer of three feet of clay must remain between deposited refuse and underlying silt.

Except as modified in the above documents, the site shall be operated in accordance with the terms and conditions of Permit No. 1973-64-OP dated April 2, 1974.

Very truly yours,

ENVIRONMENTAL PROTECTION AGENCY



Michael W. Rapps
Permit Section
Division of Land Pollution Control

NWR:ds
cc's/-Region II
-File ✓

Immediate Removal Action Check Sheet

Fire and Explosion Hazard

Flammable Materials _____

Explosives _____

Incompatible Chemicals _____

Direct Contact with Acutely Toxic Chemicals

Site Security UNFENCED

Leaking Drums or Tanks NONE

Open Lagoons or pits NONE

Materials on Surface LEACHATE SEEP

Proximity of Population ~1000'

Evidence of Casual Site Use _____

Contaminated Water Supply

Exceeds 10 Day Snarl NA

Gross Taste or Odors NO ODORS

Alternate Water Available YES

Potential Contamination NO

Is the site abandoned or active?

CLOSED

High

Moderate

Low

Comments

SAMPLE PROPOSAL
FIT REGION V

1. Date Form Completed 7-14-87
2. Account # FE10361 SI TDD # FOS-8704-065
EPA I.D. # LD980605976
3. Site Name, City, State ^{No Name} (NORTH CHICAGO) ~~BE~~ BE
N. CH. ILL.
4. Team Leader KURT SIMS Sampler Neowick
5. Number and Type of Samples:
Soil/Sediment 3 Surface Water Ground Water
Residential/Municipal Wells Other
Number of Blanks Number of Duplicates
6. RAS Parameters Requested:
A/B/M ✓ Pest/PCB ✓ Volatiles ✓ Metals ✓ Cyanide
SAS Parameters Requested:
7. Expected Sampling Date(s): Aug. 18, 1987
Expected Shipping Date(s): Aug 18, 1987
8. Lab Used For Analysis: Organic SWOL
Inorganic RMAL
SAS
9. Case Number 7914 SAS Number
10. Airbill Numbers: 818
Organic Lab 2917948552 # Coolers 1 # Samples 2 soils
Inorganic Lab 2917948541 # Coolers 1 # Samples 2 soils
CRL/SAS Lab # Coolers # Samples

SAMPLE DESCRIPTION

SITE NAME/TDD# BF1 Chgo / FOS-8704-065
CASE NUMBER 7916

SAMPLE #/STATION LOCATION S-2

SAMPLING DATE 8/18/87 SAMPLING TIME 12:30

ORGANIC TRAFFIC NUMBER ET 597
INORGANIC TRAFFIC NUMBER MEU 099

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1-8oz	Organics	5-28344	F7206112
6-40ml	VDA	45, 46	B7130151
"	VDA	85538, 39, 40, 41	"
1-8oz	Metals	5-28347	F7206112

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: _____

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: _____

INSTRUMENT READINGS _____

pH _____

CONDUCTIVITY _____

TEMPERATURE _____

SAMPLE DESCRIPTION

SITE NAME/TDD# BFI Chgo / F05-8704-065
CASE NUMBER 7916

SAMPLE #/STATION LOCATION S-1

SAMPLING DATE 8/18/87 SAMPLING TIME 11:53

ORGANIC TRAFFIC NUMBER ET 596
INORGANIC TRAFFIC NUMBER ME 4 098

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 - 802	Organics	5-28340	F7206112
6 - 40 ml	VOA	41, 42	B7132151
"	VOA	85530, 31, 32, 33	"
1 - 802	metals	5-28343	F7206112

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: _____

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: _____

INSTRUMENT READINGS _____

pH _____

CONDUCTIVITY _____

TEMPERATURE _____

Low ends

Site Name North Chicago / BFI

TOD FS-8764-065 IN DISCUSS

Case Number 7916

[illegible]